

A scenic view of the Salton Sea under a clear blue sky. In the background, a range of brown, hazy mountains stretches across the horizon. The middle ground is filled with the calm, blue water of the sea. Several small, rocky islands or peninsulas are visible, some with sparse vegetation. In the foreground, there are dry, yellowish-brown grasses and some green shrubs. Three dark, vertical wooden posts or pilings are visible in the water, extending from the foreground towards the middle ground.

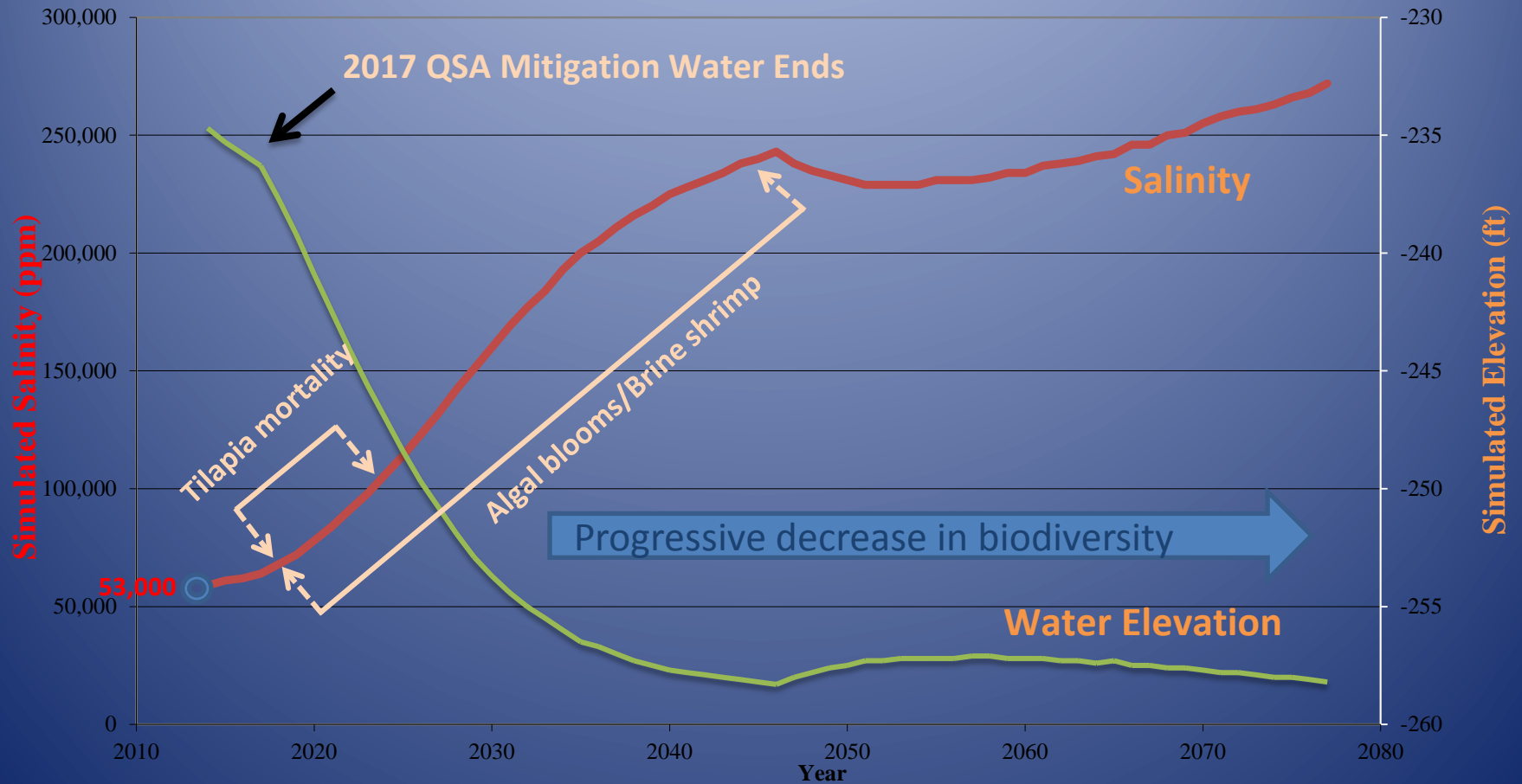
Salton Sea – Species Conservation Habitat Project

Public Stakeholder Meeting

UCR, Palm Desert

December 3, 2013

The Changing Sea

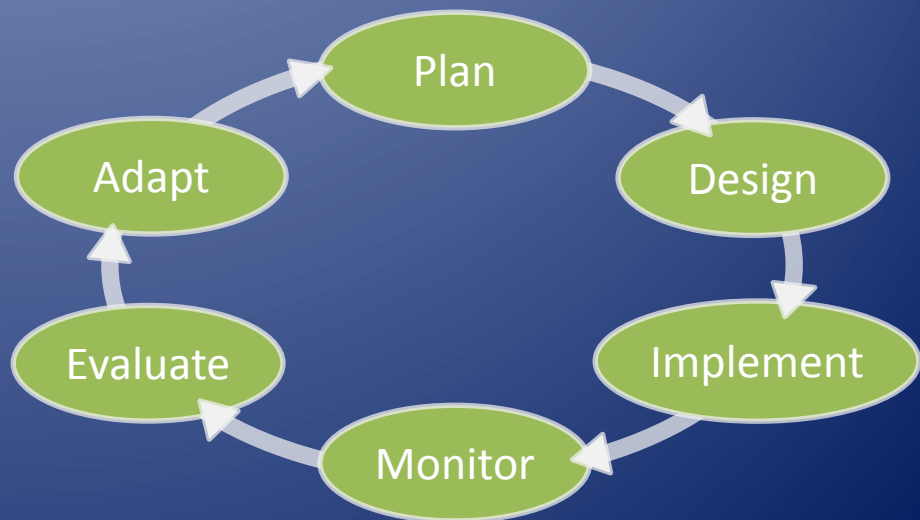


Based on Cohen, Pacific Institute, May 2006

Species Conservation Habitat Project

Goal 1: Develop a range of aquatic habitats that will support fish and wildlife species dependent on the Salton Sea

Goal 2: Develop and refine information needed to successfully manage the SCH Project habitat through an adaptive management process



Species Conservation Habitat Project

- Modeled after Early Start Habitat concepts: 2007 PEIR
- Create shallow saline habitat
- Blend river and Sea water
- Use available land at elevations below -228 msl
- Develop as a proof-of-concept project extending to 2025.



Location of SCH Alternatives

New River
Alternatives 1, 2, 3

Alamo River
Alternatives 4, 5, 6

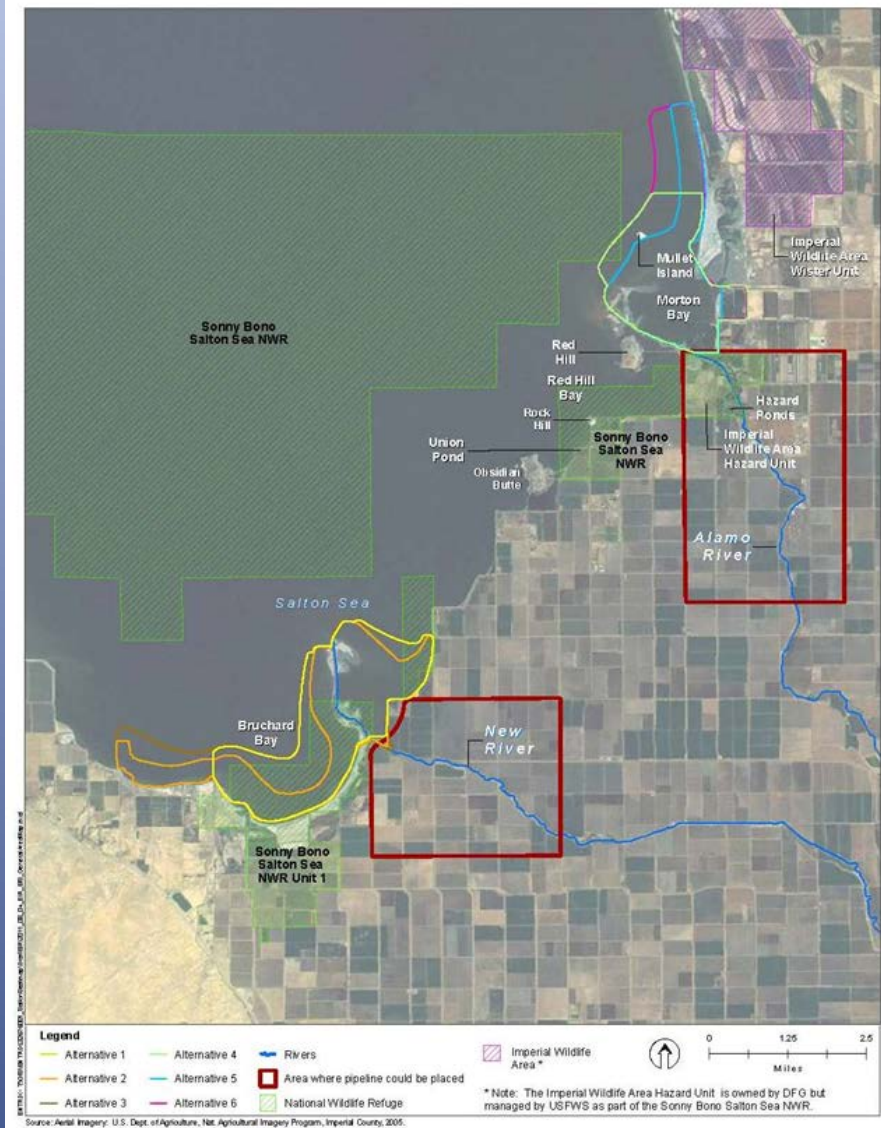
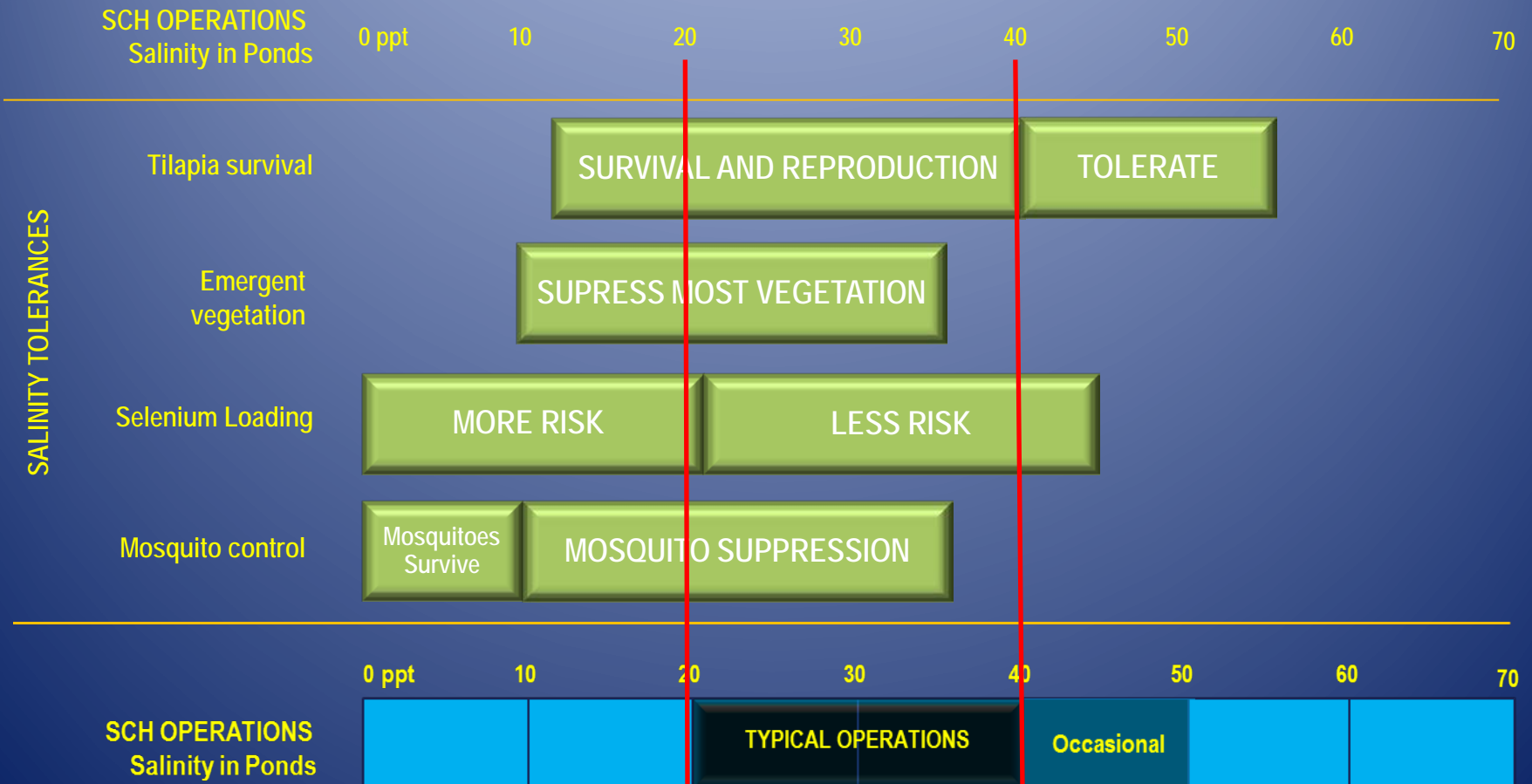
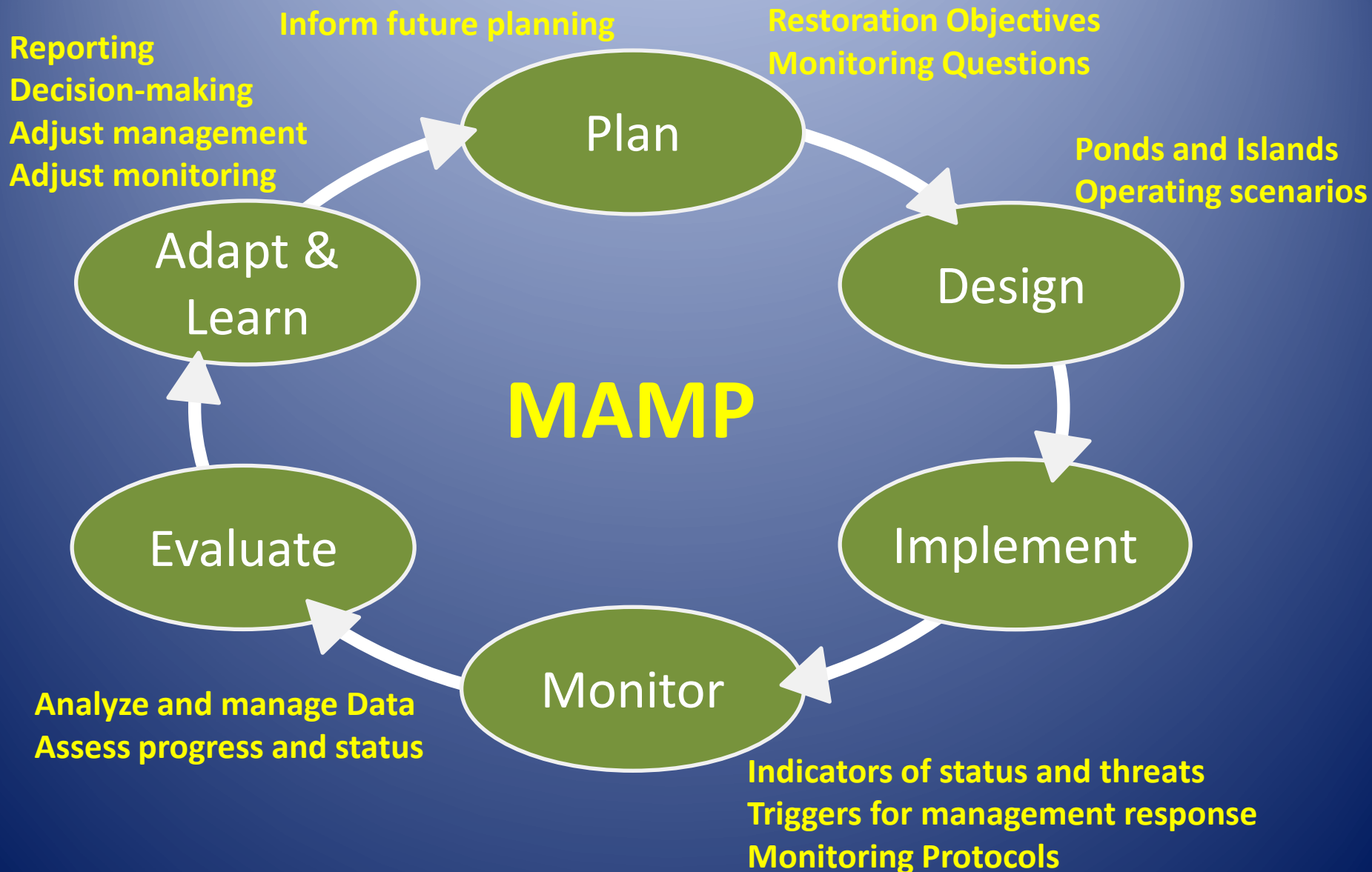


Figure ES-2 SCH Project Alternative Locations

OPERATION RANGE OF SALINITIES AND BIOLOGICAL CONSTRAINTS



Adaptive Management



Monitoring and Adaptive Management Plan

Purpose and Scope

- Evaluate effectiveness
- Monitor triggers for operations and corrective responses
- Guide restoration and management decisions
- Long term commitment to performance of project

Not in MAMP

- Full scale research project

MAMP is consistent with regional Monitoring and Assessment Plan (MAP) framework

Provide foraging habitat for piscivorous birds

Expected Outcomes

- Shallow ponds suitable for bird foraging
- Food available
- Birds successfully foraging



Indicators

- Wetted area and depth of saline ponds
- Fish species and relative abundance
- Bird species, distribution, relative abundance
- Foraging activity



T. Anderson USGS

Program Accomplishments to Date

Environmental Impact Reporting

- Draft EIS/EIR August 2011
- Final EIS/EIR July 2013

Permitting

- Section 404 (Corps)
- ESA (USFWS, DFW)
- Water Quality (Section 401)
- Cultural Resources (Section 106)
- Streambed Alteration
- IID Encroachment
- IC Building, Encroachment



Accomplishments cont...

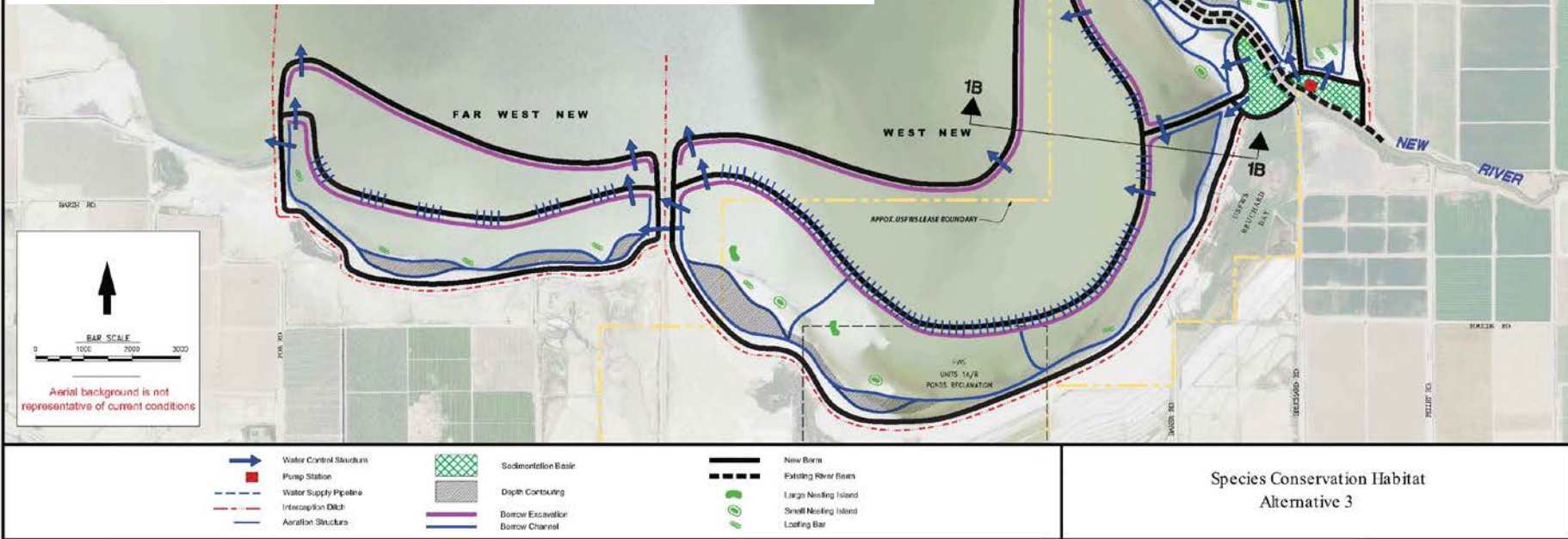
- Agreements with IID for
 - Pre-project site preparation
 - Power connection design
 - Construction Management
- 90% Design
 - Plans, Specs, Cost Estimates
 - Basis of Design Report
 - Geotechnical Design Report
- FAP Award Contracts

What's Happening Now?

- Final Project Design
- Pre-project Site Preparation (IID)
- Construction Management coordination (IID)
- Construction Bid Package (IID + team)
- Environmental and Construction Permits
- Lease Agreements
- FAP Project Initiation

[illegible]

3 Habitat Areas (total 3,770 acres)
Habitat Channels, Bird Islands
Interior and Exterior Berms,
Sedimentation Basins,
Cascading Ponds,
Flood Bypass
River Pump Station
Saline Pump Station
Uses IID Land



Design Challenges

- Availability of water
- Salinity balance
- Selenium management
- Weed management
- Mosquito management
- Temperature extremes
- Limited time to take action
- Difficult soil conditions
- Seismic activity
- Poor water quality
- Adjacent land uses
- Geothermal energy
- Low dissolved oxygen
- Site access
- Power connection

Total 640 acres
Internal Sedimentation Basins
Saline Station Near-shore
Saline Force Main in Road
Power Connection
Bird Habitat Islands
Water Retention Berms

Proposed Features

- Saline Pump Station
- River Pump Station
- Power Alignment
- Power Tie-in Location
- Project Boundary
- Water Supply Pipeline
- Intake Channel
- Sediment Basin / Sediment Disposal Site
- Land Ownership
 - Federal
 - Imperial Irrigation District
 - Private (blank)

Young Rd
Kombloom Rd
Bowles Rd
Vail Rd
New River

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

Cardno ENTRIX
SALTON SEA
Species Conservation Habitat Project
Pump Station Concept - Final
Scale: 1" = 100' (Horizontal)
Scale: 1" = 100' (Vertical)
Projection: CA State Plane, Zone 8
Datum: NAD 83

Site Conditions

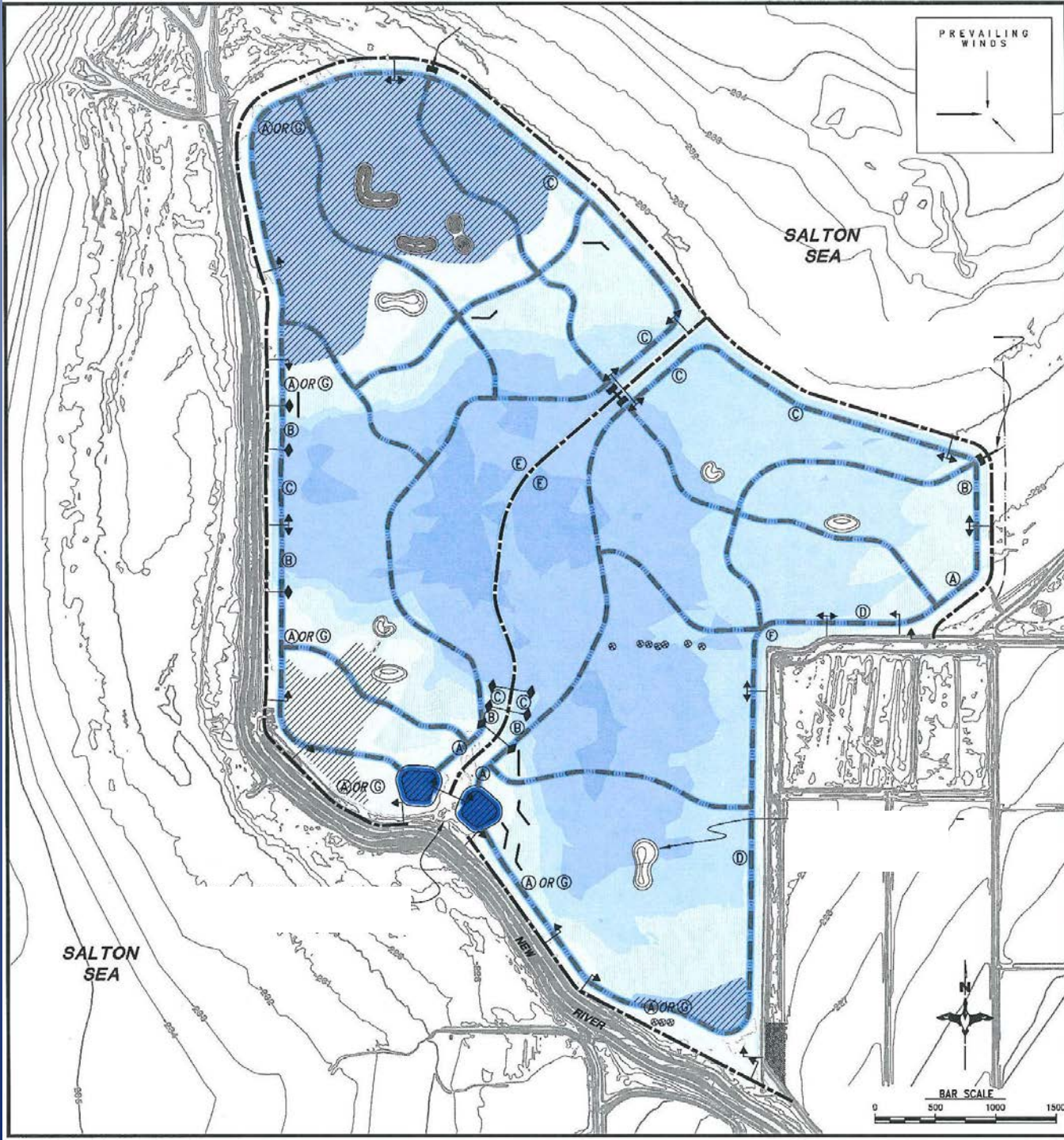


Site Conditions



Site Conditions





Saline Pump Station Site



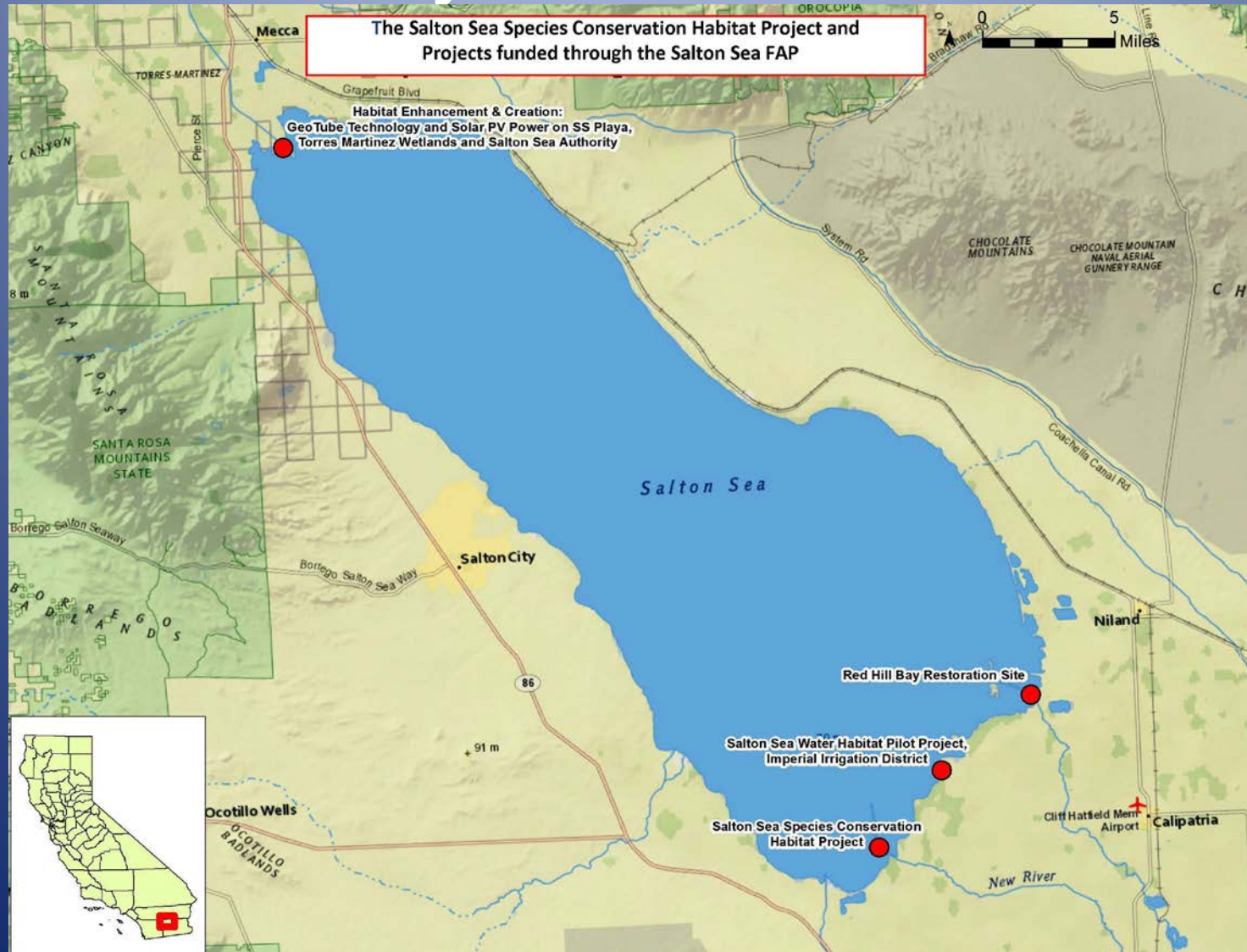
Draft Schedule

- 90% Design PS&E December 6, 2013
- Power Design January 31, 2014
- 100% PS&E March 2014
- Award Bid Package June 2014
- Begin Construction August 2014

Financial Assistance Program

- 3 projects selected based on 3 major criteria:
 - Feasibility
 - Qualifications of the applicant
 - Objectives
- Contracts executed on 9/19/2013
- First quarterly report due November
- Seeking additional funding

Financial Assistance Program Project Locations



Financial Assistance Program: Salton Sea Authority Project

- Creation of wetland habitat
- Q2 of 2016
- Funded \$1,113,027



Financial Assistance Program: IID – Sephton Project

- Pilot project to reclaim hyper saline water
- Q2 of 2017
- Funded \$692,819



Financial Assistance Program: US Fish & Wildlife Project - IID

- Creation of saline shallow bird habitat
- Until Q2 of 2015
- Funded \$1,194,154



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